

L 40315-65

ACCESSION NR: AR4044802

divided by i. When, however, a remainder d from the division of  $C_k$  by k or by i exists, the above formulas will take this shape:

$$M = \left( \frac{C_k^n - d}{i} \right)^{i-1} \cdot \left( \frac{C_k^n - d}{i} + d \right)$$

$$M = \left( \frac{k-d}{i} \right)^{k-1} \cdot \left( \frac{k-d}{i} + d \right).$$

Curves of the number of CC vs. the number of code frequencies and the number of packets are presented. APC characteristics with and without group selection are given. It is stated that the decoders for the case of group-selection codes are simpler. A high noise immunity of APC is noted; no clock pulse is needed in transmitting CCs. The APC system is recommended for telemechanical systems, primarily for distributed-plant systems. Two illustrations.

SUB CODE: IP

ENCL: 00

llc  
Card 3/3

L 6506-66

EWT(1)/EWT(n)/EWP(t)/EWP(b)

IJP(o)

JD/JG

UR/0056/65/049/002/0459/0469

653  
21.44.55ACCESSION NR: AP502110  
EWT(1)/EWT(n)/EWP(t)/EWP(b) IJP(o) JD/JG  
44,65 UR/0056/65/049/002/0459/0469  
AUTHOR: Sumbayev, O. I.; Mezentseva, A. F.  
TITLE: Experimental observation of the isotopic shift of the  $K_{\alpha_1}$  x-ray line or  
molybdenum. <sup>17</sup> Zhurnal experimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965.

SOURCE: Zhurnal experimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965.

459-469

TOPIC TAGS: molybdenum, x-ray diffraction, x-ray measurement, line shift, x-ray spectrum

ABSTRACT: The volume isotopic shift of the  $K_{\alpha_1}$  x-ray line of the molybdenum isotopes  $Mo_{92}$ ,  $Mo_{94}$ , and  $Mo_{100}$  was measured by a procedure previously used by the authors to measure the chemical shift of the K-series x-ray lines of comparatively heavy isotopes (ZhETF v. 48, 445, 1965). The differences in the measurement procedures of the  $K_{\alpha_1}$  line for  $Mo_{92}^{92}0_3$ — $Mo_{94}^{94}0_3$ ,  $Mo_{94}^{94}0_3$ , and  $Mo_{100}^{100}0_3$  turned out to be relatively small and are described in detail. The differences in the measurement energies of the  $K_{\alpha_1}$  line for  $Mo_{92}^{92}0_3$ — $Mo_{94}^{94}0_3$ ,  $Mo_{94}^{94}0_3$ , and  $Mo_{100}^{100}0_3$ , and  $0.001 \pm 0.005$  ev. The results agree with the theory within 15%. Condition is  $30 \pm 0.005$ ,  $0.027 \pm 0.008$ , and  $0.001 \pm 0.005$  ev. The results agree with the theory within 15%.

L 6506-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG  
ACCESSION NR: AP5021110

UR/0056/65/049/002/0459/0469

AUTHOR: Sumbayev, O. I.; Mezentseva, A. F.

TITLE: Experimental observation of the isotopic shift of the  $K_{\alpha_1}$  x ray line of molybdenum

SOURCE: Zhurnal experimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965,

TOPIC TAGS: molybdenum, x ray diffraction, x ray measurement, line shift, x ray spectrum

ABSTRACT: The volume isotopic shift of the  $K_{\alpha_1}$  x-ray line of the molybdenum isotopes  $Mo^{92}$ ,  $Mo^{94}$ , and  $Mo^{100}$  was measured by a procedure previously used by the authors to measure the chemical shift of the K-series x-ray lines of comparatively heavy isotopes (ZhETF v. 48, 445, 1965). The measurement procedure and the apparatus are described in detail. The differences in the energies of the  $K_{\alpha_1}$  line for  $Mo^{92}O_3$ — $Mo^{100}O_3$ ,  $Mo^{94}O_3$ — $Mo^{100}O_3$ , and  $Mo^{92}O_3$ — $Mo^{94}O_3$  turned out to be respectively  $0.030 \pm 0.005$ ,  $0.027 \pm 0.008$ , and  $0.001 \pm 0.005$  ev. The relative sensitivity of the method is  $0.00003\%$  and the results agree with the theory within 15%. Comparison of

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L 6506-66  
ACCESSION NR: AP5021110

the experimental errors with theoretical estimates of the effect for a number of other elements indicates that the isotopic shift of x-ray lines can be used as a new method of investigating nuclear properties, permitting a better and more exact separation of the nuclear part of the effect than the optical isotopic shift. "The authors thank D. M. Kaminker for interest in the work and a discussion of its results, A. I. Yegorov for useful advice in source preparation and the staff members of his laboratory, V. Ye. Koval'tsov and G.N. Popova, for control analyses of the isotopic composition of our samples." Orig. art. has: 4 figures, 6 formulas, and 3 tables.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR  
(Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 27Mar65

ENCL: 00

44,55  
SUB CODE: OP.

NO REF Sov: 005

OTHER: 021

nw  
Card 2/2

EMI(M)/EWP(t)/ETI LJP(c) JD/JG

ACC NR: AP6014024

SOURCE CODE: UR/0056/66/050/004/0861/0870

1. AUTHOR: Sumbayev, O. I.; Mezentsev, A. F.; Marushenko, V. I.; Petrovich, Ye. V.; ✓  
Ryl'nikov, A. S.ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tehnicheskiy ✓  
institut AN SSSR) 41  
BTITLE: Chemical shift due to screening of the inner levels of heavy elementsSOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 4, 1966,  
861-870TOPIC TAGS: heavy element, inner level, screening, chemical bonding, atomic structure, atomic property, tin, molybdenum, tungstenABSTRACT: Chemical shifts of the  $K\alpha_1$  x-ray lines of Mo-MoO<sub>3</sub>, Sn-SnO<sub>2</sub>, and W-WO<sub>3</sub> were measured by a method based on alternately introducing the compared sources into the field of vision of the Cochois diffraction spectrometer with compensated aperture aberrations. The  $E(K\alpha_1)$  energy differences for the metal and oxide are respectively  $+192 \pm 7$ ,  $-152 \pm 5$ , and  $+110 \pm 33$  Mev. Thus, the results previously obtained by the authors (O. I. Sumbayev, A. F. Mezentsev, ZhETF, 48, 445, 1965) for Sn-SnO<sub>2</sub>, now have been confirmed by an improved experimental arrangement. It is shown that despite the usually accepted viewpoint (A. Sandstrom, Handb. der Phys., 30, 158, 1957), the inner (K, L) atomic level shifts, due to the formation of chemical bonds, are appreciable, including the heaviest elements. Moreover, their absolute value remains approximately

Card 1/2

L 34834-66

ACC NR: AP6014024

3

constant with a growing Z. This conclusion agrees with the theoretical estimates made by the authors on the assumption that the chemical effects observed are due to internal screening (S. M. Karal'nik, Izv. AN SSSR, ser. fizich., 20, 815, 1956; S. M. Karal'nik, Izv. AN SSSR, ser. fizich., 21, 1445, 1957). It was mentioned that the effect may be used for investigating the nature of the chemical bond as was done previously in the case of light elements. The authors thank Professor D. M. Kaminker for his interest in this work and discussions of the results and V. S. Zykova and Yu. P. Smirnova for carrying out measurements. Orig. art. has: 2 figures, [NT] 4 formulas, and 5 tables. [Based on authors' abstract.]

SUB CODE: 20, 11/ SUBM DATE: 27Oct65/ ORIG REF: 007/ OTH REF: 012

Card 2/2 FV

MEZNETSEV, A.I.

Effect of ultraviolet rays on growth of transplanted malignant tumors in white mice. Trudy ANN SSSR 21 no.4:238-240 '52. (MLRA 10:8)

1. Iz onkologicheskoy kliniki Sverdlovskogo nauchno-issledovatel'skogo instituta fizicheskikh metodov lecheniya (nauchn. rukov. - prof. L.M.Ratner, dir. - kandidat meditsinskikh nauk Ye.I.Milyutina)

(ULTRAVIOLET RAYS, effects,

on exper. cancer grafts in white mice)

(НОВОПЛАСМЫ, эксперименталь-

ные. эфф. of ultraviolet rays on cancer grafted in white mice)

MEZEMTSEV, A.I.

Stimulating effects of mud applications and of massage on growth of malignant tumors. Trudy AMN SSSR 21 no.4:240-244 '52. (MLRA 10:8)

I. Iz onkologicheskoy kliniki Sverdlovskogo nauchno-issledovatel'skogo instituta fizicheskikh metodov lecheniya (nauchn.rukov.prof. L.M. Ratner, dir. - kandidat meditsinskikh nauk Ye.I.Milyutina)

(NEOPLASMS, experimental,  
eff. of massage & mud application on growth)

(MASSAGE, effects,  
on exper. cancer growth)

(MUD THERAPY,  
eff. on exper. cancer growth)

MEZENTSEV, A. I.

MEZENTSEV, A. I.: "The effect of certain physiotherapeutic factors on the growth of malignant tumors under clinical and experimental conditions" Khabarovsk, 1954. Khabarovsk State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

MEZENTSEV, A. I.

Increasing the effect of radiotherapy by preliminary general  
irradiation (experimental study). Vop. onk. 8 no.3:92-94 '62.  
(MIRA 15:4)

1. Iz kafedry rentgeno-radiologii Sverdlovskogo gosudarstvennogo  
meditsinskogo instituta (dir. - prof. A. F. Zverev, konsul'tant  
raboty - chl. korr. AMN SSSR prof. L. M. Shabad)

(RADIOTHERAPY)

ACCESSION NR: AR4027237

S/0299/64/000/002/P065/P065

SOURCE: RZh. Biologiya, Abs. 2P409

AUTHOR: Mezentsev, A. I.; Gubin, G. D.

TITLE: Changes in the radiosensitivity of animals as a result of previous x-irradiation

CITED SOURCE: Sb. tr. Sverdli. med. in-t, vyp. 39, 1963, 110-116

TOPIC TAGS: radiosensitivity, radiation, radiation sickness, radiation resistance

ABSTRACT: In experiments on 245 albino rats, one group was subjected to a single total-body irradiation at a dose of 800 r and a second group was subjected to two irradiations at doses of 43 and then 800 r with a 7-day interval. A record was made of survival, weight change, changes in the Hb content and leukocyte count in the peripheral blood, the condition of the animals, and the histological index (DNA, RNA and glycogen content of the liver). Previous irradiation increased survival of irradiated animals 2-5-fold (with the exception of a group of animals with an initial weight higher than 300 g, where the survival rate remained unchanged). Radiation sickness of such pre-irradiated animals was less severe. In addition, the RNA and glycogen content of pre-irradiated animals changed only slightly. DNA

Card: 1/2

ACCESSION NR: AR4027237

content was decreased to the same extent in both groups of animals. V. Kozlov

DATE ACQ: 14Feb64

SUB CODE: LS

ENCL: 00

Card 2/2

ACCESSION NR: AR4025766

S/0299/64/000/003/P064/P064

SOURCE: RZh. Biologiya, Abs. 3P421

AUTHOR: Mezentsev, A. I.; Mezentseva, Z. D.

TITLE: (3P421) The effect of ascorbic acid on the course of acute radiation sickness in relation to its time of administration

CITED SOURCE: Sb. tr. Sverdli. med. in-t, vykp. 39, 1963, 117-125

TOPIC TAGS: radiation, radiation sickness, ascorbic acid

ABSTRACT: The effect of ascorbic acid and of its time of administration on the course of acute radiation sickness was studied in 157 white rats receiving 700 r of X-ray. Ascorbic acid was administered as a 5% solution i.m. 15-20 minutes before or within 1 hour after irradiation, at doses of 50-100 mg/kg. The survival of irradiated animals receiving ascorbic acid was 10.4-33.4% for pretreated animals, 55.6% for those treated after irradiation, and 33% for controls. The symptoms of acute radiation sickness were qualitatively equal in all groups of animals, but there were quantitative differences. The most marked symptoms were observed in rats receiving ascorbic acid before irradiation and in controls. Ascorbic acid is recommended as a prophylactic agent against acute radiation sickness.

5000 172

ACCESSION NR: AR4025766

V. Kozlov

DATE ACQ: 27Feb64

SUB CODE: LS

ENCL: 00

Card 2/2

BRODSKIY, A.M.; LABROVSKIY, K.P.; MAKAROV, D.V.; MEZENTSEV, A.N.; FISH,  
Yu.L.

Radiation-thermal cracking of gas oil. Neftekhimiia 2 no.3:  
332-338 My-Je '62. (MIRA 15:8)

1. Institut neftekhimicheskogo sinteza AN SSSR.  
(Cracking process) (Petroleum products)

L 3921-66 EWT(1)/T IJP(c)

ACCESSION NR: AP7017869

UR/0051/65/019/001/0012/0015  
539.186.2:535.5:546.49

AUTHOR: Fedorov, V. L. Mekhterov, A. P.

44,55  
44,55

61

52

B

TITLE: On the polarization of radiation excited by electron impact

SOURCE: Optika i spektroskopiya, v. 19, no. 1, 1965, 12-18

TOPIC TAGS: mercury, light polarization, electron interaction, optic transition, light excitation

ABSTRACT: To explain the discrepancy between the theoretical and experimental values of the polarization of mercury radiation, the authors developed apparatus for the measurement of polarization of radiation excited by an electron beam, with a specially designed prism depolarizer. Polarization was studied as a function of the energy of the exciting electrons for the following transitions in the Hg spectrum: 3461, 4358, 4047 Å ( $6^3P_{2,1,0} \rightarrow 7^3S_1$ ); 4347 Å ( $6^1P_1 \rightarrow 7^1D_2$ ); 5770 Å ( $6^1P_1 \rightarrow 6^3D_2$ ); 4916 Å ( $6^1P_1 \rightarrow 8^1S_0$ ); and 4078 Å ( $6^3P_1 \rightarrow 7^1D_0$ ). The results show that the 4916 and 4078 Å lines are not polarized, in agreement with theory. The 3461, 4358, and 4047 Å lines are not polarized up to 0.4--0.5 eV above the excitation threshold, and polarized at higher energies. The polarization of the triplet lines is apparently connected with cascade transitions to the  $7^3S_1$  level from higher

Card 1/2

L 3921-66

ACCESSION NR: AP3017889

9  
levels. The threshold value of the polarization differs little from theory. "The authors thank Yu. N. Il'yan and S. E. Frish for interest in the work and a discussion, and L. Golovanevskaya for help with the experimental data reduction." Orig. art. has: 6 figures.<sup>14/15</sup>

ASSOCIATION: none

SUBMITTED: 13 Apr 64

MR KEY SOC: 004

ENCL: 00

OTHER: 006

SUB CODE: 02

Cont 2/2

L 3921-66  
ACCESSION NR: AF3017889

9  
levels. The threshold value of the polarization differs little from theory. "The authors thank Yu. M. Bigan and S. I. Frish for interest in the work and a discussion, and L. Golovnevskaya for help with the experimental data reduction." Orig. art. has: 6 figures. 77/55

ASSOCIATION: none

SUMMITTED: 13 April

NR REP Sov: 004

ENCL: 00

OTHER: 006

SUB CODE: OF

Leh  
Card 2/2

GRINEV, A.N.; MEZENTSEV, A.S.; TERENT'YEV, A.P.

Quinones. Part 33: Condensation of arylnaphthoquinones  
with sodium enolates of acetoacetic and malonic esters and  
their analogs. Znur.ob.khim. 30 no.7:2306-2311 Jl '60.  
(MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet.  
(Naphthoquinone) (Acetoacetic acid)  
(Malonic acid)

GRINEV, A.N.; MEZENTSEV, A.S.; SIBIRYAKOVA, D.V.

Study of the reaction of sodium hydroxymethanesulfonate with  
colimycin and monomycin. Antibiotiki 6 no.10:894-897 O '61.

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.  
(ANTIBIOTICS) (METHANESULFONIC ACID)

GRINEV, A. N.; MEZENTSEV, A. S.; SIBIRYAKOVA, D. V.

Antibiotics. Determination of the empirical formula and the  
synthesis of derivatives of helicomyycin. Zhur. ob. khim. 33  
no.1:127-128 '63.  
(MIRA 16:1)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

(Antibiotics)

GRINEV, A. N.; MEZENTSEV, A. S.; SIBIRYAKOVA, D. V.

On the structure of the antibiotic heliomycin. Zhur. ob.  
khim. 33 no.1:315 '63. (MIRA 16:1)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

(Antibiotics)

GRINEV, A.N.; MEZENTSEV, A.S.; SIBIRIAKOVA, D.V.

Antibiotics. Part 2: Oxidation products of the antibiotic  
heliomycin. Zhur.ob.khim. 33 no.10:3207-3209 O '63.

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.  
(MIRA 16:11)

GRINEV, A.N.; KOZLOVA, L.A.; MEZENTSEV, A.S.

Study of the chemical properties of clivomycin. Antibiotiki 9  
no.2:138-140 F '64. (MTRA 17:12)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Mcskva.

KOVSHAROVA, I.N.; PROSHLYAKOVA, V.V.; MEZENTSEV, A.S.; UKHOLINA, R.S.

Similarity between heliomyces and croceomycin. Antibiotiki 9  
no.11:980-983 N '64. (MIRA 18:3)

1. Institut po Izucheniyu novykh antibiotikov AMN SSSR.

MEZENTSEV, A.S.; KRUGLYAK, Ye.B.; BORISOVA, V.N.; FEDOROVA, G.B.; BRAZHNIKOVA,  
M.G.

Production of some olivomycin derivatives and their physicochemical  
characteristics. Antibiotiki 10 no.5:410-414 My '65.

(MIRA 18:6)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Moskva.

7, 1947, 14-37000, Yester BR, collected by H. M. G.

Product of hydrolysis of  $\text{Na}_2\text{P}_2\text{O}_7$  is  $\text{Na}_2\text{HPO}_4$ .

1. *Entomophaga* 1983, 28(4): 339-345. ISSN 0013-8738.  
2. *Entomophaga* 1983, 28(5): 411-416. ISSN 0013-8738.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033730009-5"

MEZENTSEV, A.V.

Production of birchbark tar oil. Gidroliz.i lesokhim.prom.  
(MIRA 13:9)  
13 no.6:27 '60.

1. Kirovskiy khimleskhoz.  
(Tar oils)

MEZENTSEV, A.V.

More complete utilization of wood-chemistry products. Gidroliz. i  
lesokhim.prom. 13 no.7:28 '60. (MIBA 13:10)

1. Kirovskiy khimleeskhoz.  
(Wood--Chemistry)

MEZENTSEV, A.Ya.; PANIN, P.S.

Reviewing the article "Periods for testing relays for signaling, central control and block systems." Avtom., telem. i svias' 2 no.2:38 F '58.

(MIRA 11:1)

1. Starshiy elektromekhanik kontrol'nogo punkta Serpukhovskoy distantsii Moskovsko-Kursko-Donbasskoy dorogi (for Mezentsev).
2. Starshiy inzhener laboratorii signalizatsii i svyazi Moskovsko-Kursko-Donbasskoy dorogi (for Panin).  
(Railroads--Signaling--Block system)

MEZENTSEV, A.Ya., starshiy elektromekhanik

Periodical inspection of high-voltage equipment. Avtom. telem. i  
sviaz' 2 no.12:35 D '58.  
(MIRA 11:12)

1.Kontrol'no-ispytatel'nyy punkt Serpukhovskoy distantsii signalizatsii  
i svyazi Moskovsko-Kursko-Donbasovskoy doregii.  
(Railroads--Electric equipment)

1. DUSHKIN, A. N., Arch.; MEZENTSEV, B. S., Arch.
2. USSR 600
4. Public Buildings - Moscow
7. 16-story building at Krasnye Vorota, Gor. khoz. Mosk, 23, No. 7, 1949.
  
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

~~MEZENTSEV, G.A.~~

Postoperative pneumoperitoneum. Khirurgija 32 no.7:82-83 J1 '56.  
(MLB 9:11)  
1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. M.I.  
Kimbarskiy) Dnepropetrovskogo meditsinskogo instituta i 1-y  
Gorodskoy klinicheskoy bol'nitsy Dnepropetrovska (glavnyy vrach -  
zasluzhennyy vrach USSR A.G.Palishhevskiy)  
(LAPAROTOMY, compl.

pneumoperitoneum)  
(PNEUMOPERITONEUM, etiol. and pathogen.  
laparotomy)

VISHNEPOL'SKIY, S.A., kand. ekon. nauk; BAYEV, S.M., inzh. putey soobshcheniya; BONDARENKO, V.S.; RODIN, Ye.D.; CHUVLEV, V.P.; TURETSKIY, L.S.; SMIRNOV, G.S.; SHAPIROVSKIY, D.B.; OBERMEISTER, A.M.; SINITSIN, M.T.; KOGAN, N.D.; PETRUCHIK, V.A.; GRUNIN, A.G.; KOLESNIKOV, V.G.; MARTIROSOV, A.Ye.; KROTKIY, I.B. [deceased]; ZENEVICH, G.B.; MEZENTSEV, G.A.; VOLMOYTSEV, V.P., kand. tekhn. nauk; ZAMAKHOVSKAYA, A.G., kand. tekhn. nauk; MAKAL'SKIY, I.I., kand. ekon. nauk; MITROFANOV, V.F., kand. ekon. nauk; CHILIKIN, Ya.A.; BAKAYEV, V.G., doktor tekhn. nauk, red. Prinimali uchastiye: DZHAVAD, Yu.Kh., red.; GUBERMAN, R.L., kand. ekon. nauk, red.; RYABCHIKOV, P.A., red.; YAVLENSKIY, S.D., red.; BAYRASHEVSKIY, A.M., kand. tekhn. nauk, red.; POLYUSHKIN, V.A., red.; BALANDIN, G.I., red.; ZOTOV, D.K., red.; RYZHOV, V.Ye., red.; BOL'SHAKOV, A.N., red.; VUL'FSOON, M.S., kand. ekon. nauk, red.; IMITRIYEV, V.I., kand. ekon. nauk, red.; ALEKSANDROV, L.A., red.; LAVRENOVA, N.B., tekhn. red.

[Transportation in the U.S.S.R.; marine transportation] Transport SSSR; morskoj transport. Moskva, Izd-vo "Morskoi transport," 1961. 759 p.

(MIRA 15:2)

(Merchant marine)

MEZENTSEV, G., aspirant

This can be done immediately. Zhil.-kom.khoz. 12 no.6:28-29 Je  
'62.  
(MIRA 15:12)

1. Akademiya kommunal'nogo khozyaystva.  
(Streetcars)

MEZENTSEV, G. A.

Coordinated organization of the movement of all types of urban passenger transportation. Zhil.-kom. khoz. 13 no.1:16-17 '63.

(MIRA 16:3)

1. Starshiy inzh. tresta "Orgelektrotrans" Ministerstva kommunal'nogo khodzyaystva RSFSR.

(City traffic)

CONFIDENTIAL - 100% BLACK & WHITE

100% BLACK & WHITE

100% BLACK & WHITE

FEZEMEEV, Gennadiy Ivanovich

[Safety manual for the deployment of personnel carriers. Russ.  
nike bezopasnosti ilia voditeliya trubokressa. M.: AVIA,  
Stroizdat, 1964. 35 p.]

YERSHOVA, L.P., inzh.; KORSUNSKAYA, A.I., inzh.; Prinimali uchastiye: KOLOV, M.I.;  
NEKHOROSHIKH, Yu. M.; MEZENTSEV, G.V.

Nonuniformity of magnetic properties in a stack of electrical steel  
sheets. Stal' 21 no.6:546-548 Je '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Sheet steel--Magnetic properties)

20894

94300 (1143, 1150, 1161)

S/535/60/000/128/008/008  
E036/E135

AUTHOR: Mezentsev, I. I., Engineer

TITLE: Influence of Impact Ionisation (Avalanche) on the Properties of Junction Transistors

PERIODICAL: Moscow. Aviationsionnyy institut. Trudy. No. 128, Moscow, 1960. Primeneniye poluprovodnikovykh priborov v aviationsionnykh radiotekhnicheskikh ustroystvakh; sbornik statey. pp. 91-98

TEXT: The author has measured the small signal current gain ( $\alpha$ ) of several transistors, diffused and alloyed, as a function of collector voltage at large collector voltages where, on some types,  $\alpha$  values greater than unity can be obtained;  $\alpha$  was found to vary exponentially with voltage. A qualitative account in simple terms is given of the avalanche breakdown phenomena and, as is well known, this leads to the  $\alpha$  values larger than unity. Measurement of  $\alpha$  as a function of the collector voltage at 50 c.p.s. is quite straightforward, 10 - 15 transistors of each type being measured. The results can be expressed in the form:

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20894

S/535/60/000/128/008/008  
E036/E135

Influence of Impact Ionisation (Avalanche) on the Properties of  
Junction Transistors

$$\ln \left( \frac{\alpha}{\alpha_0} \right) = A \frac{V_K^B}{K}$$

where  $V_K$  is the collector voltage and  $\alpha_0$  is the current gain at  $V_K = 0.5$  volts. The constants  $A$  and  $B$  were almost constant for all germanium transistors, and were:  $A = 2 \cdot 10^{-7} \text{ v}^{-1}$ ,  $B = 3.2-3.4$ . Transistors with parameters significantly different from the rest are excluded from the results. Curves of  $\alpha$  versus  $V_K$  are given for various types of transistor. Three types were examined in the temperature range 30-70 °C. At higher temperatures  $\alpha$  is decreased although values greater than unity are still observed; the constant  $B$  also decreases slightly. On the whole the changes were less than the permitted scatter of the parameters from their mean values. No marked changes in  $\alpha$  were observed when the transistors were maintained at 50-60 °C for some hours. The frequency cut-off  $f_a$  was also investigated and plotted as a function of collector voltage, and this indicates an increased  $f_a$  when operated at large collector voltages.

Card 2/3

20894

S/535/60/000/128/008/008  
E036/E135

Influence of Impact Ionisation (Avalanche) On the Properties of  
Junction Transistors

This is attributed to the increased  $\alpha$ , the existence of an electric field in the base region, and to decreased base width due to widening of the collector space charge region. At collector voltages of 50-60 volts the cut-off frequency is increased by a factor of 1.5-2.0 times the low voltage value. There are 7 figures and 2 Soviet references.

X

Card 3/3

SAMOYLENKO, V. I.; MEZENTSEV, I. I.

Heat factors in the operation of transistor devices. Trudy MAI  
no.150:72-92 '62.  
(MIRA 15:10)

(Transistors)

DROGAL', V.V.; DEGTYAREV, V.P.; ZAMURUYEV, A.M.; MEZENTSEV, I.S.

Copying gas-cutting machine "Odessa" with photoelectric control.  
Biul.tekh.-ekon.inform. no.5:26-28 '61. (MIRA 14:6)  
(Gas welding and cutting—Equipment and supplies)  
(Photoelectric measurements)

44964

171200  
S/124/63/000/001/065/080  
D234/D308

AUTHORS: Oleynik, N.V.<sup>1</sup> and Mezentsev, I.S.

TITLE: Effect of stress concentration on the summation characteristic of fatigue damage

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 74,  
abstract 1V575 (In collection: Tsiklich. prochnost'  
metallov. M., AN SSSR, 1962, 177-186)

TEXT: In repeated single-step overloading with sign-changing bending with rotation of specimens made of 40X (40Kh) steel, smooth, with shallow ring-shaped groove, with three such grooves, with a transverse hole, with deep ring-shaped groove, with three such grooves and with a deep and an unloading groove, the authors studied the effect of stress concentration on the inclination of secondary fatigue curves of special kind, and eventually on the magnitude of accumulated cycle ratio  $a$ , determined from

Card 1/3

S/124/63/000/001/065/080  
D234/D308

Effect of stress concentration ...

$$a = \frac{L_2 \left( \frac{\sigma_2}{\sigma_1} \right)^q \left[ \beta + \left( \frac{\sigma_2}{\sigma_1} \right)^m \right]}{N_2 \left( \frac{\sigma_2}{\sigma_1} \right)^m (1+\beta)}$$

where  $m$  and  $q$  are cotangents of inclination angles (inclination indices) of the primary and secondary fatigue curves,  $\sigma_1$  and  $\sigma_2$  are levels of two-step loading,  $\sigma_1 > \sigma_2$ ;  $\beta = n_1/n_2$  is the programming factor,  $n_1$  and  $n_2$  are the total numbers of cycles corresponding to  $\sigma_1$  and  $\sigma_2$  respectively,  $N_2$  and  $L_2$  are normal durabilities on the  $\sigma_2$  level for the primary and secondary fatigue curve respectively. With increase of the effective coefficients of stress concentration determined with respect to the bases of limited ( $10^5$ ,  $3 \times 10^5$  and  $7 \times 10^5$ ) and long-term ( $5 \times 10^9$ ) durability, the accumulated cycle ratio decreases from approx. 1.8 to 0.97. The decrease of  $a$  is the sharper the higher the overload level. Stress

Card 2/3

Effect of stress concentration ...

S/124/63/000/001/065/080  
D234/D308

concentration decreases a in comparison with smooth specimens. With large overloads and strong stress concentrations a becomes smaller than 1.

[Abstracter's note: Complete translation]

Card 3/3

USPENSKIY, V.N., glav. red.; TER-ARUTYUNYANTS, G.O., zam. glav. red.; AIR-ABAMYAN, Ya.A., red.; BGORAD, D.I., red.; KAPLAN, L.Z., inzh., red.; MALYSHENKO, O.A., red.; MEZENTSEV, I.V., red.; BONDARENKO, I., red.; NELYUBIN, K.P., red.; OREKHOV, V.M., red.; PUGREBOV, S.N., red.; SLIVAK, I.M., kand. tekhn. nauk, red.; STANISLAVSKIY, A.I., red.; SLUTSKIY, G.M., red.; SOLOFRENKO, I.A., red.

[Transportation and engineering facilities of cities; an aid to designer.] Transport i inzhenernoe oborudovanie gorodov; v pomoshchi proektirovchiku. Kiev, Budivel'nyk, 1964. 100 p. (MIRA 18:5)

1. Ukrainskiy gosudarstvennyy institut proyektirovaniya gorodov. 2. Gosstroy USSR (for Kaplan, Orekhov). 3. Gosstroy USSR (for Pugrebov). 4. Kiyevskiy inzhenerno-sstroitel'stvennyy institut (for Slivak). 5. Kiyevskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Uspenskiy, Ter-Arutyunyants, Malyshenko, Mezentsev, Bondarenko). 6. Leningradskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Nelyubin). 7. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut po gradostroitel'stvu, Moskva (for Solofrenko). 8. Kiyevskoye upravleniye po proyektirovaniyu zhiliashchno-grazhdanskogo i kommunal'nogo stroyitel'stva (for Slutskiy).

See

21

A smokeless charging of coke ovens. I. V. Arsenijevic  
U.S. Pat. No. 2,437,477  
Filed "Refurb. Zapr." 1930, No. 8,922. For a smokeless  
charging in the Zaporozhets plant a steam pipe system is  
constructed along the ovens. Before charging 2 ovens are  
connected with each other by means of a curved pipe.  
Steam is passed into both furnaces and the coal mix is  
added to one of them. The curved pipe can be moved and  
connected to the following oven. W. R. Henn.

AUTHOR: Mezentsev, I. Ya.

68-58-4-8/21

TITLE: On Smokeless Charging of Coke Ovens (O bezdymnoy zagruzke koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, Nr 4, pp 28-30 (USSR)

ABSTRACT: Three modifications of charging ovens were investigated. The object was to test which of the methods is the most suitable from the point of view of the amount of smoke evolved into the atmosphere, the amount of coal blend carried out by gas through the collecting main into tar settling tanks and the duration of the whole charging cycle. The following factors were varied: the weight of the coal blend charged into each of the three bunkers of the lorry car, the moment at which the levelling of the charge started (after charging bunkers are empty or when the middle bunker was not yet quite empty), steam pressure used for injectors. It was found that the carry over of coal with gas during charging is proportional to the duration of steam injection. Under experimental conditions: moisture content of coal 8-5%, -3 mm size/fraction 95%, and suction at the bottom of the ascension pipe 19 mm about 3.5 kg of coal is carried out with gas.

Card 1/2

On Smokeless Charging of Coke Ovens

68-58-4-8/21

In order to obtain practically smokeless charging steam pressure should be such as to obtain not less than 19 mm suction at the bottom of the ascension pipe. The most suitable charging procedure for the works is discussed. There is one table.

ASSOCIATION: Zaporozhskiy koksokhimicheskiy zavod  
(Zaporozh'ye Coke Oven Works)

1. Ovens--Operation    2. Ovens--Performance    3. Coke--Production

Card 2/2

Sov/68-59-10-9/24

AUTHOR: Mezentsev, I.Ya.

TITLE: Various Designs of the Installation for Quenching Coke

PERIODICAL: Koks i khimiya, 1959, Nr 10, pp 31-32 (USSR)

ABSTRACT: On the Zaporozh'ye Coking Works three quenching towers are fitted with differently designed quenching equipment, differing mainly in the diameter of the pipe supplying water and positioning of the spraying tubes and the diameter of the spraying holes. The efficiency of quenching by these installations was compared. It was found that for an efficient quenching about 45-50m<sup>3</sup> of water should be supplied in 75-80 seconds. For this purpose the diameter of the pipe supplying water should be not less than 400mm and the diameter of the spraying holes not less than 26mm. The main part of the quenching water should be directed towards the upper part of the inclined bottom. The quenching wagon should not be perforated, so that in the bottom, where about 2/3 of the coke is accumulated, a water bath is formed which

Card 1/2

Various Designs of the Installation for Quenching Coke Sov/68-59-10-9/24  
will quench the coke uniformly.

ASSOCIATION: Zaporozhskiy koksokhimicheskij zavod  
(Zaporozh'ye Coking Works)

Card 2/2

KULESHOV, P.Ya.; MEZENTSEV, I.Ya.

Glorious road of Zaporozhye coke chemists. *Zoks i khim.*  
no.16:6-9 '61. (MIRA 15:2)

1. Direktor Zapozhskogo koksokhimicheskogo zavoda (for  
Kuleshov).  
(Zaporozh'ye--Coke industry)

KULESHOV, P.Ya.; MEZENTSEV, I.Ya.; BOROVIK, P.A.

Struggling for a high title. Koks i khim. no.5:3-5 '63.

(MIRA 16:5)

1. Direktor Zaporozhskogo koksokhimicheskogo zavoda (for Kuleshov).
2. Sekretar' partiynogo komiteta Zaporozhskogo koksokhimicheskogo zavoda (for Kuleshov). 3. Predsedatel' zavodskogo komiteta Zaporozhskogo koksokhimicheskogo zavoda (for Borovik).  
(Zaporozh'ye---Chke industry) (Socialist competition)

MEZENTSEV, M.

Specializing in the construction of foundations. Stroitel'  
no.6:12 Je '59. (MIRA 12:9)

1. Nachal'nik uchastka po ustroystvu podzemnoy chasti zdaniy  
Kurskogo stroitel'nogo tresta №.77.  
(Kursk--Foundations)

MEZENTSEV, M.A., inzh.

Indices of locomotive utilization. Vest. TSNII MPS 21  
no.1:30-33 '62. (MIRA 15:2)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo  
institut zheleznodorozhnogo transporta Ministerstva putey  
soobshcheniya, g. Sverdlovsk.  
(Locomotives)  
(Railroads—Management)

MEZENTSEV, M.A., inzh. (Sverdlovsk)

Comprehensive evaluation of the operations of a locomotive pool. Zhel.dor.transp. 44 no.1:57-60 Ja '62. (MIRA 14:12)  
(Railroads--Management)  
(Locomotives)

MEZENTSEV, M.A., inzh.

Evaluating the utilisation of locomotives. Trudy TSNII MPS  
no.246:40-70 '62. (MIRA 16:2)  
(Locomotives) (Railroads--Management)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001033730009-5

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Economics and organization of production in the coal industry. Móskva,  
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TN808.R9M49

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CIA-RDP86-00513R001033730009-5"

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CIA-RDP86-00513R001033730009-5

Kuzbass, R.D.

Production cost of coal. Moskva, Uzletekhizdat, 1987. 71 p.  
(54-180.1)

KA5781.00148

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001033730009-5"

~~KUZNETSEV, Mikhail Danilovich; CHETYRKIN, M.I., otvetstvennyy redaktor;~~  
~~SUROVA, V.A., redaktor izdatel'stva; IGNAT'YEVA, L.I., redaktor~~  
~~izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor;~~  
~~KOROVENKOVA, Z.A., tekhnicheskiy redaktor~~

[The economics, organization and planning of production in the  
coal industry] *Ekonomika, organizatsiya i planirovaniye proizvod-  
stva v ugol'noi promyshlennosti.* Issd. 2-oe, perer. i dop. Moskva,  
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IVANOV, Stepan Aleksandrovich; MMEZENTSEV, Mikhail Danilovich; ZHAVORONKOVA,  
I.P., otv.red.; GOLUBYATNIKOVA, G.S., red.izd-va; BERESLAVSKAYA,  
L.Sh., tekhn.red.; KOROVENKOVA, Z.A., tekhn.red.

[Coal mining economics] Ekonomika ugol'noi promyshlennosti.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960.  
149 p.

(Coal mines and mining)

MEZENTSEV, Mikhail Danilovich; MERZON, A.S., otv. red.; GRINER,  
N.S., red. izd-va; LOMILINA, L.N., tekhn. red.

[Technical, industrial, and financial plan of a mine]Tekh-  
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(Coal mines and mining--Management)

MEZENTSEV, M. F.

"The Blood Supply of the Tarsal Joint in Mammals in Relation  
to the Construction and Function of Their Pelvic Extremities."  
Cand Biol Sci, Inst of Zoology, Acad Sci Ukrainian SSR, Kiev,  
1955. (KL, No 9, Feb 55)

SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical  
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(14)

USSR / Human and Animal Morphology Normal and Patho- S-4  
logic -- Cardiovascular System

Abs Jour: Ref Zhur-Biol., No 13, 1958, 5987+

Author : Mezents'ev, M. F.

Inst Kiev Veterinary Institute

Title : The Intra-Organic Blood Vessels of the Bones of  
the Tarsus

Orig Pub: Tr. Kiyevsk. v.t. in-t, 1957, 13, 279-289

Abstract: No abstract

Card 1/1

DOROSHKO, I.N., doktor veterin. nauk; BAYDEVLYANTOV, A.B., kand. veterin. nauk; MEZENTSEV, M.F., kand. biolog. nauk; IGUMENOV, V.A.

Enzo-otic granulomatosis in hens. Veterinariia SSSR 1965:35-40  
F '65. / № 18:3

1. Nauchno-issledovatel'skiy Ukrainskiy institut pitsevodstva  
(for Doroshko, Baydevlyantov, Mezentsev). 2. Glavnyy veterinarnyy  
vrach opytogo khozyaystva "Borki" (for Igumenov).

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CIA-RDP86-00513R001033730009-5

MEZENTSEV, N.A., inzh.

Replacing footing piles by pressing them in. Elek. sta. 29 no. 7:91-92  
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(Electric lines--Poles)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001033730009-5"

MEZENTSEV, O.K.; RATNIKOV, V.M.; SKOROSPELKIN, S.A.

Statistical treatment of the data of geochemical prospecting.  
Razved. i okh. nedr 36 no.10:10-15 O '64. (MJRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo  
syr'ya, Moskva (for Mezentev, Ratnikov). 2. Gosudarstvennyy  
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"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001033730009-5

YEVDOKIMOV, V.D., kand. tekhn. nauk; MEZENTSEV, S.A., inzh., FRIA I.Rh.,  
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Burnishing holes in steel parts. Maschinostroyenie no. 12, 1962.  
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[Lectures on the theory of accounting] Lektsii po teorii bukhgal'-  
terskogo ucheta. Moskva, Gos.izd-vo torgovoii lit-ry. Vol.1.  
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predmet i metod. 1956. (MIRA 12:4)  
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ABATUROV, A.I.; VINOGRADOV, M.A.; DUBROVA, G.B.; LOTOREV, L.M.; ZORIN, S.N.;  
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MEYEROVICH, I.L.; KLYUCHEV, A.Ye.; SARYCHEV, V.G.; ZAVILOVICH, M.A.;  
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GAGLOYEVA, N.A.; KRYUKOVA, T.B.

Rubinshtein, Grigorii Leonidovich; 1891-1959. Sov. torg. 33 no.12:56  
D '59. (MIRA 13:2)

(Rubinshtein, Grigorii Leonidovich, 1891-1959)

MEZHENSEV, Pavel Venediktovich, prof.; ISHKOVA, A.K., red.; MAMONTOVA,  
N.N., tekhn.red.

[Lectures on accounting] Lektsii po bukhgalterskому uchetu.  
Moskva, Gos.izd-vo torg.lit-ry. No.3. [Accounting of fixed assets,  
raw materials and stocks, labor and wages] Uchet osnovnykh  
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116 p.

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YEGOROVA, Ye.M.; MEZENTSEV, R.A.

Pathogenic relationship between diabetes mellitus and atherosclerosis. Terap.arkh. no.8:67-71 '62. (MIRA 15:12)

1. Iz kliniki fakul'tetskoy terapii (zav. - prof. Ye.S. Medvedev) Dnepropetrovskogo meditsinskogo instituta na baze 1-y gorodskoy bol'nitsy (glavnnyy vrach N.I. Mononov).  
(DIABETES) (ARTERIOSCLEROSIS)

ЖУКИРКОВ, Pavel Nikolayevich; КОКОВА, Н.Н., red.; МИЛЕНТЯН, ...  
red.

[Along the path of evaporation] Proprietary. *Yektyshkar*,  
Komi, Knizhnoe izd-vo, 1964. 6, p. (Kh. 12, 12)

\* PROBLEMS AND EXERCISES

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tekhnicheskiy redaktor.

[Wind] Veter. Moskva, Gos. izd-vo kul'turno-prosvetitel'noi  
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CIA-RDP86-00513R001033730009-5

Avant-Premier, VI A.

Days of light. Moscow. Moskovskii rabochii, 1940. 110 p. (Izrasha i chelovek)  
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QC751.M4

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REZENTSEV, V. A.

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ZISMAN, G.A., kandidat fiziko-matematicheskikh nauk; MEEENTSEV, V.A.,  
redaktor; SUKHOVTSIEVA, M.D., tekhnicheskiy redaktor  
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....., cl. A.

The riddle of matter; what the world is made of. Novaya Detritz, 1951. 140 p.  
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KOLOBKOV, N.V.; MEZENTSEV, V.A.; KASHIN, K.I., doktor geograf.nauk,  
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OLEYKH, D.A., tekhn.red.

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(MIRA 13:6)  
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MEZENTSEV, V.A.

PHASE I Treasure Island Bibliographic Report

00000077

BOOK

Author: MEZENTSEV, V.A.

Full Title: PHOTOELECTRIC CELL, 3rd edition.

Transliterated Title: Elektricheskii glaz.

Publishing Data

Originating Agency: Library of Popular Science

Publishing House: State Publishing House of Technical-Theoretical Literature

Date: 1952 No. pp.: 56

No. copies: 100,000

Editorial Staff

Editor: None.

Editor-in-Chief: Obreimov, I.V., Corr.  
Member of the Academy  
of Sciences

Technical Editor: None.

Appraiser: None.

Text Data

Coverage: General data in popular form on the electric "effect" of light and basic laws of photoelectric phenomena; also, construction of photoelectric cells and their operation for various practical purposes.

Purpose: Popularization of scientific data.

Facilities: None.

No. Russian References: None. (The book contains a list of 22 other books in the series).

Available: A.I.D., Library of Congress.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001033730009-5

*Mozentsev, V.A.*

*Kitaigorodskii, A. I. and Mezentsev, V. A.: Atom i  
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*Rev. 9/97*

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SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

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USSR/Physics - Photoelectric Effect

Mar 52

"Electric Eye," V.A. Mezentshev

"Nauka i Zhizn" Vol XIX, No 3, pp 29-32

Reviews application of photoelectricity to industrial safety devices or door-opening and closing devices. Soviet scientists improved photosensitive cathodes by use of thallium sulfate. Photoelectric safety devices are produced in Kharkov Electromech Plant imeni Stalin under guidance of engineers Kravtsov, Karayev, and Vorob'yev.

216704

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KIZZENTSEV, V.

Rays and the atmosphere. Tekh.molod. 21 no.8:27-29 Ag '53. (MLRA 6:?)  
(Meteorological optics)

V. A. MELENTSEV, MAJ GEN S. AZAROV\*

Atom i atomnaya energiya (The Atom and Atomic Energy)

By V. A. Mezentsev. Voyenizdat (Military Publishing House), 1954. Reviewed by Maj Gen S. Azarov\*, who stated that despite the numerous shortcomings in the second part of the book--the part dealing with the destructive force of the atomic bomb and the protective measures to be taken against it--the book has value for the military reader. Azarov stated that the author was mistaken when he said that an air burst is more destructive than a ground burst, for the reverse is actually true. (KZ, 19 Dec 54)

SO: Krasnaya Zvezda, Sum #450, 11 Apr 55

*Abstract D 162853, 1 Jan 55*

KITAYGORODSKIY, Aleksandr Isaakovich; KREZENTSEV, Vladimir Andreyevich;  
KRIVOSHESYA, A.S., redaktor; ATAMASHKO, V.P., tekhnicheskij redaktor.

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1954. 83 p. (Microfilm)  
(Atomic theory) (MLEA 8:2)

MEZENTSEV, Vladimir Andreyevich; MOSOVA, V., redaktor; ARSEN'YEV, A.  
nauchnyy redaktor; YEGOROVA, I., tekhnicheskiiy redaktor.

[Universe and atom] Vselenniaia i atom. Moskva, Izd-vo TsK  
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